



We are Water



WE MAKE THE CITY BETTER



Where Does Our Water Come From?

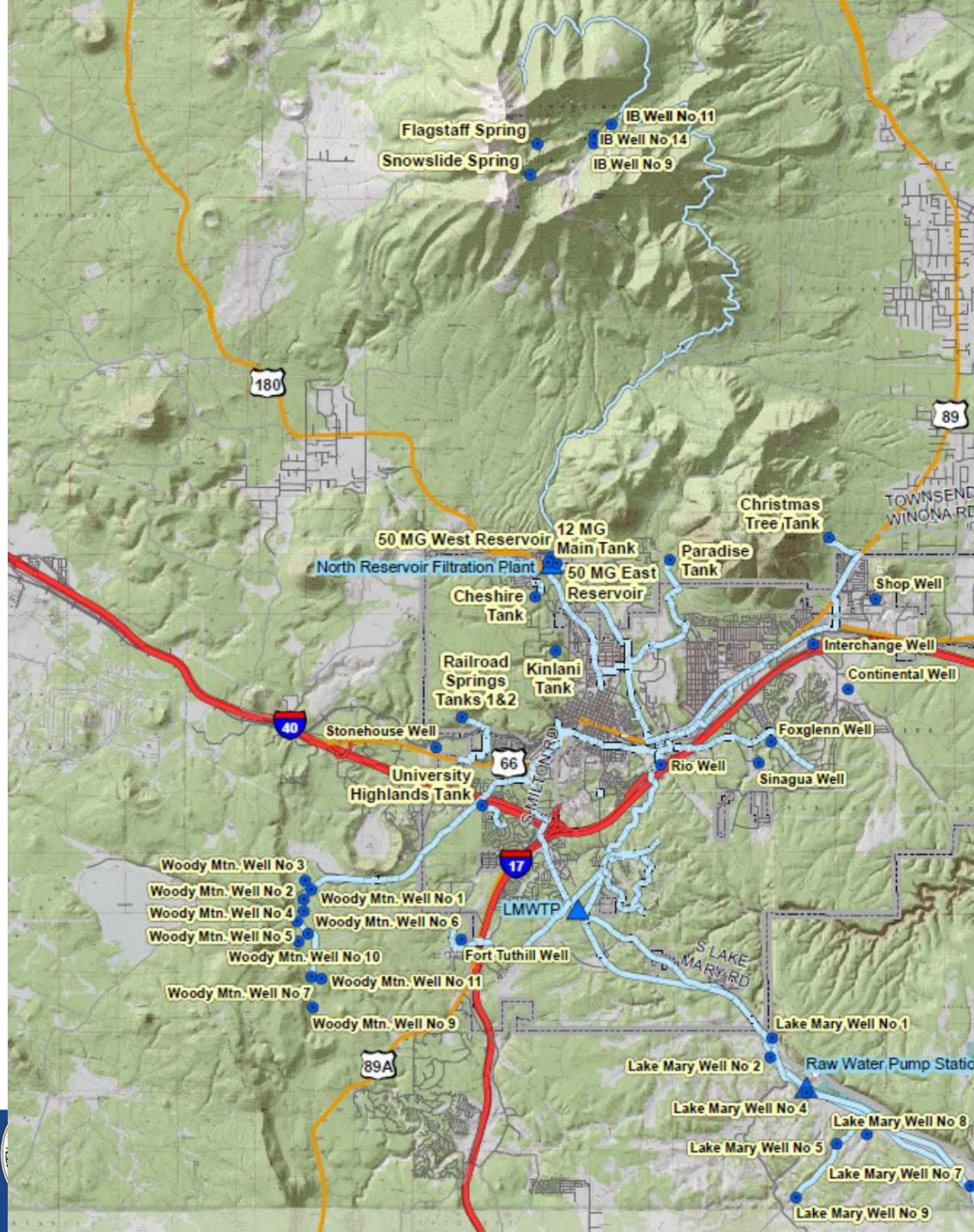
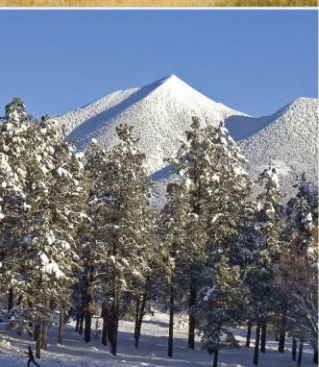
- Two Sources
 - Surface Water
 - Groundwater



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Surface Water



Lake Mary



Inner Basin

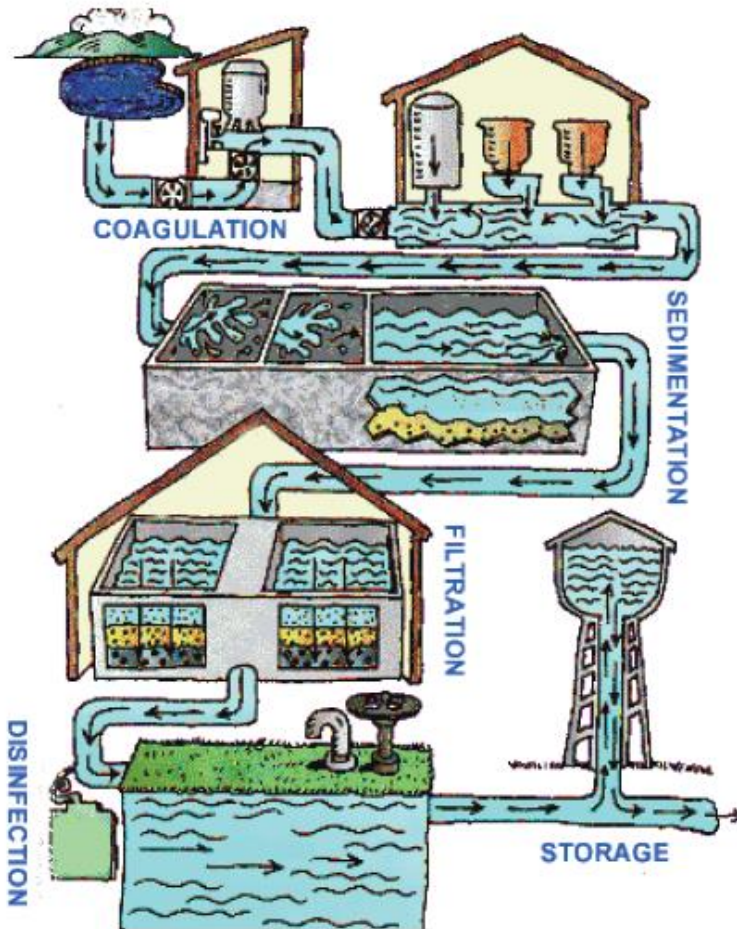


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Lake Mary

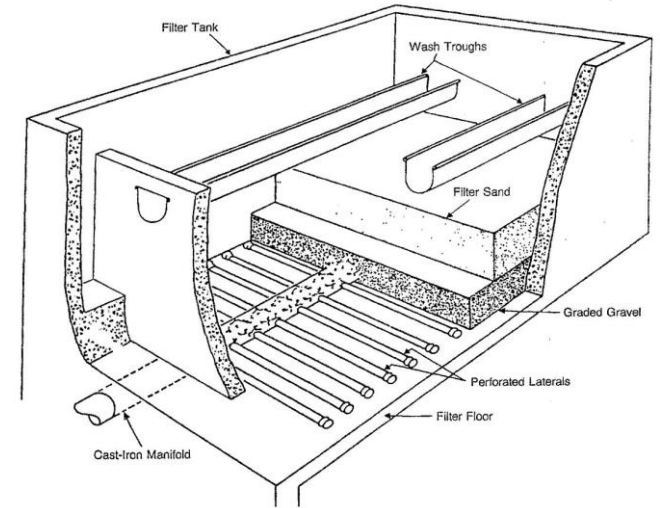
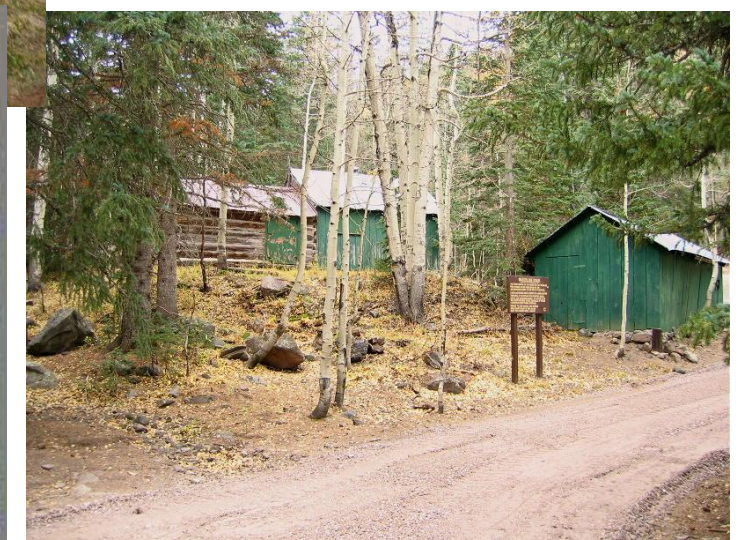


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Inner Basin

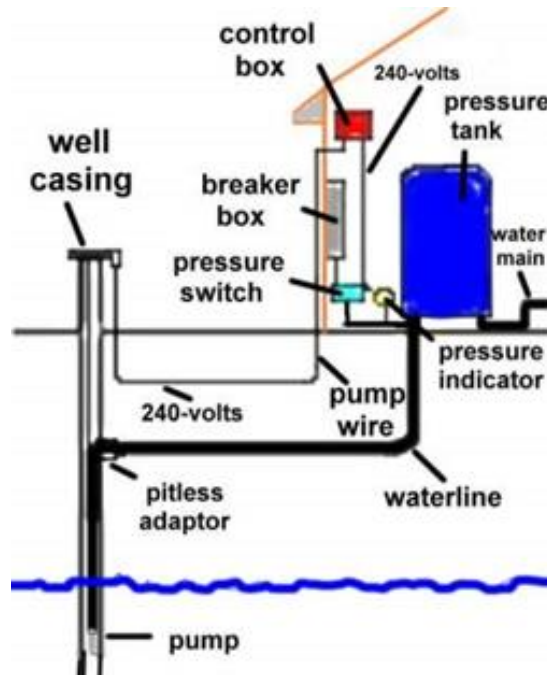


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Ground Water



Lake Mary and Woody Mountain Wellfields



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Ground Water

We have Seven
Local Wells



Local Wells



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HOW WATER GETS TO OUR CUSTOMERS



- Distribution System
- Water from all these sources enters at different points



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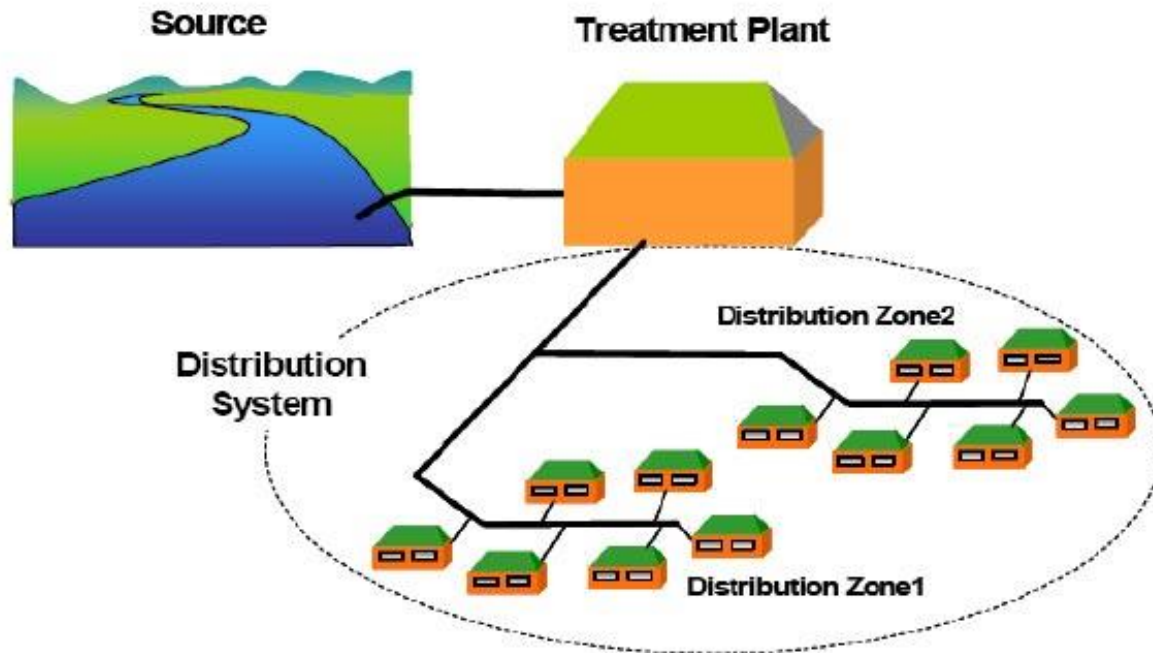
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2017 Water Deliveries

- GROUNDWATER 5,921 AF 73%
- SURFACE WATER 1,776 AF 27%



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CONTROLS



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PLANS IN PLACE

- Emergency Operation Plan
- Backflow Prevention



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EMERGENCY PLAN



- Loss of Source
- Component Failure
- Loss of Power
- Contamination
- Collapse of reservoir
- Line Break



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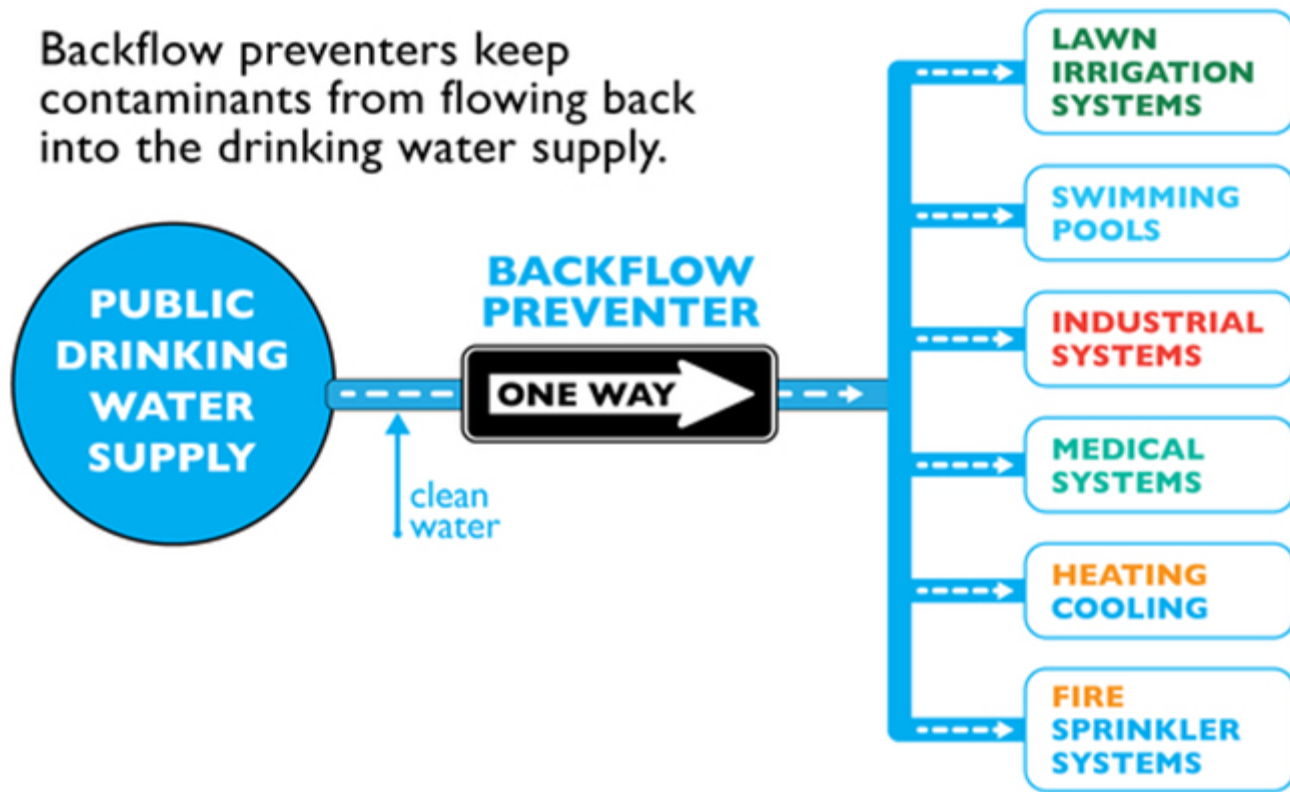
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BACKFLOW PREVENTION



Backflow preventers keep contaminants from flowing back into the drinking water supply.



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TESTING

- Surface Water
- All Sources
- Distribution System



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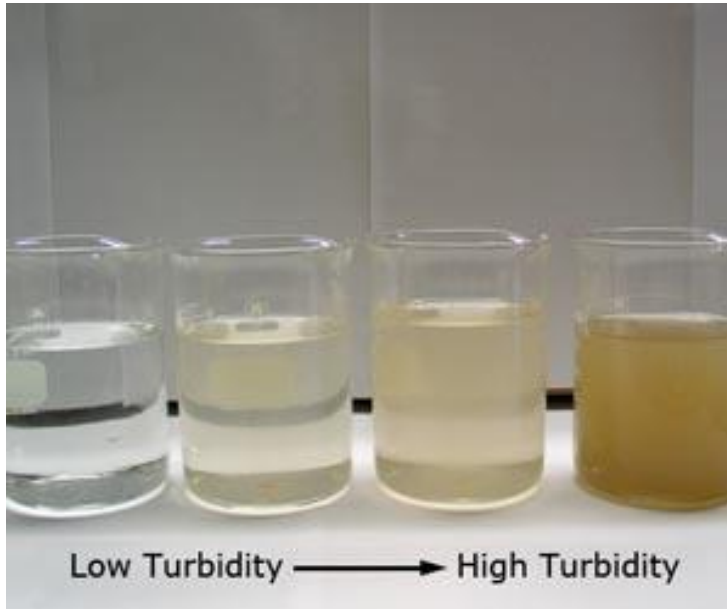
TESTING – Surface Water

Cryptosporidium – Lake Mary/IB

Guardia – Lake Mary/IB

Turbidity – Treated Water

Chlorine Residual – Treated Water



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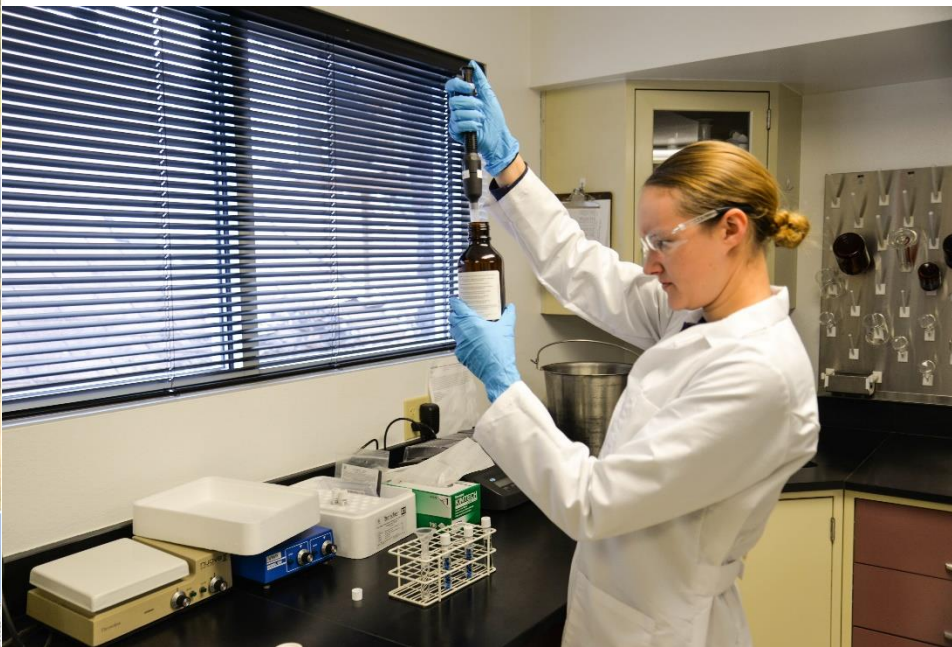


TESTING - Inorganics

Inorganics, such as arsenic and nitrate

Radiochemicals, such as uranium and radium

Inorganics are naturally occurring in the environment



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TESTING - Organics

Organics, such as pesticides, solvents, fuels

Flagstaff Water Services has not had detections of organics in water samples from the water system



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TESTING - Total Coliform

Total coliforms are a group of related bacteria that are (with few exceptions) not harmful to humans. EPA considers total coliforms a useful indicator of other pathogens for drinking water. Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system.

80 Monthly Tests –
Population of
70,000 to 80,000



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TESTING – Lead and Copper

Lead and Copper

Lead does not originate in the source water. It leaches from pipes and plumbing systems.

Collected in homes primarily constructed in 1980s

Always well below any action levels



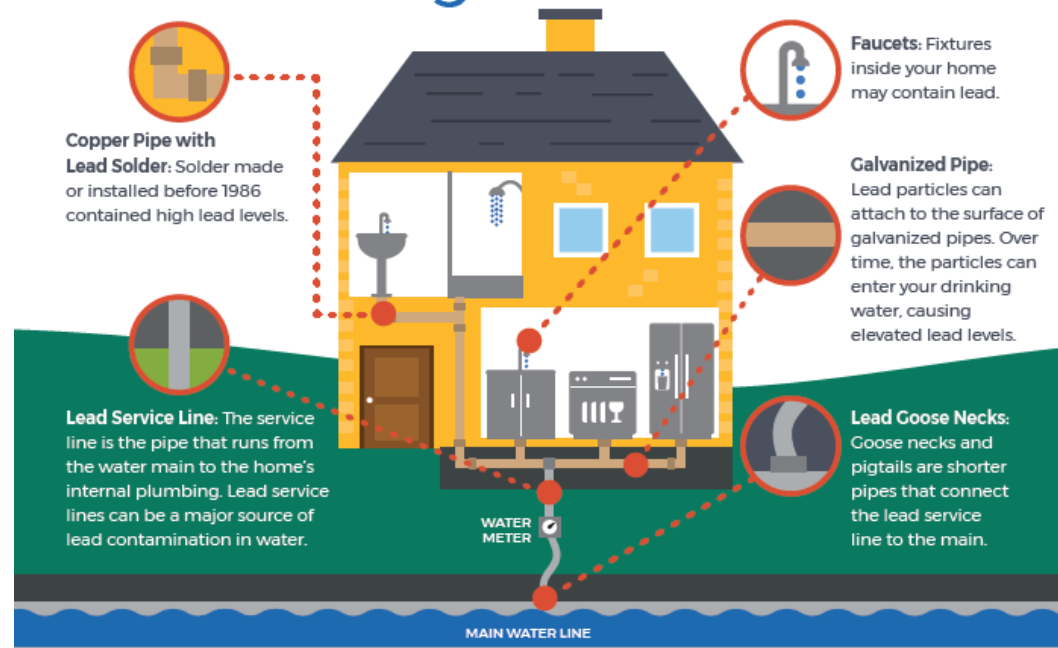
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CONCERNED ABOUT LEAD IN YOUR DRINKING WATER?

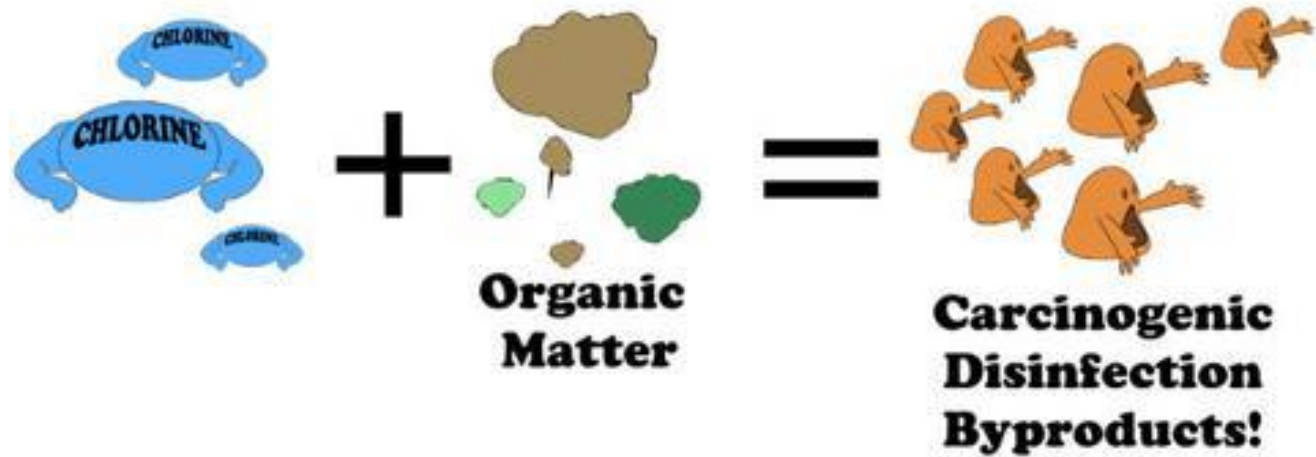
Sources of **LEAD** in Drinking Water



TESTING – DBP

Disinfection Byproducts

Chlorine, used as a disinfectant, reacts with organic matter in the water system and forms byproducts



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Other Parameters

Secondary Standards (Unregulated)

Manganese

Hardness

Color

Odor

Iron

Corrosivity

Unregulated

Taste



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Why is Our Water Better?



Hardness

Phoenix is higher than 500 mg/L

Flagstaff ranges from 25 to 325 mg/L

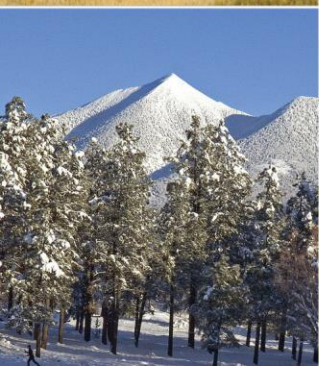
Secondary standard is 500 mg/L



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ANNUAL WATER QUALITY REPORT

WATER TESTING PERFORMED IN 2017



Presented By
Flagstaff Water Services



Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

PWS ID#: 03008





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QUESTIONS?

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Water Matters



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